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APPLICATION NO. **FILING DATE** FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/486,823 03/03/00 SHIMADA J 506.38266X00 **EXAMINER** 020457 HM12/0926 ANTONELLI TERRY STOUT AND KRAUS SPIVACK PAPER NUMBER SUITE 1800 **ART UNIT** 1300 NORTH SEVENTEENTH STREET ARLINGTON VA 22209 1614 DATE MAILED: 09/26/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

Office Action Summary

Application No. 09/486,823

Applicant(s)

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Shimada et al.

Examiner

Phyllis Spivack

Art Unit 1614

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	The MAILING DATE of this communication appear	s on the cover sheet with the corresp	pondence address
Period for A SHO THE M	or Reply DRTENED STATUTORY PERIOD FOR REPLY IS SE MAILING DATE OF THIS COMMUNICATION.	T TO EXPIRE <u>3</u> MONTH	(S) FROM
- Extense after af	sions of time may be available under the provisions of 37 or er SIX (6) MONTHS from the mailing date of this commun period for reply specified above is less than thirty (30) day considered timely. period for reply is specified above, the maximum statutory mmunication. To to reply within the set or extended period for reply will, be apply received by the Office later than three months after the ned patent term adjustment. See 37 CFR 1.704(b).	ication.	of thirty (30) days will MONTHS from the mailing date of this
Status			
1) 💢	Responsive to communication(s) filed on Aug 28,	2001	·
2a) 🗌	This action is FINAL . 2b) 😾 This ac	ction is non-final.	
3) 🗌 :	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.		
Dispositi	on of Claims		
4) 💢	Claim(s) <u>6-17</u>	is/are	pending in the application.
	a) Of the above, claim(s)		
	Claim(s)		
	Claim(s) <u>6-17</u>		
	Claim(s)		
	Claims		
	on Papers		
9) 🗆 🗆	The specification is objected to by the Examiner.		
10)	The drawing(s) filed on is/are	objected to by the Examiner.	
11) 🗌 📑	The proposed drawing correction filed on	is: a)□ approved b	o)□ disapproved.
12) 🗌 📑	The oath or declaration is objected to by the Exam	iner.	
Priority u	inder 35 U.S.C. § 119		
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).			
a) 🗆	All b) ☐ Some* c) ☐ None of:		
1.	1. Certified copies of the priority documents have been received.		
2.	2. Certified copies of the priority documents have been received in Application No		
	Copies of the certified copies of the priority d application from the International Bure	au (PCT Rule 17.2(a)).	his National Stage
_	the attached detailed Office action for a list of the		
141 -	Acknowledgement is made of a claim for domestic	priority under 35 U.S.C. § 119(e)	
Attachmen	nt(s)		
	ce of References Cited (PTO-892)	18) Interview Summary (PTO-413) Paper No.	o(s)
	ce of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (P	TO-152)
i /) ∐ Infor	mation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:	

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Applicants' Amendment filed August 28, 2001, Paper No. 11, is acknowledged and has been entered. Claims 6-17 remain under consideration wherein the R_4 moiety is presently limited to -(CH₂)- R_5 , and R_5 is selected from furyl, thienyl, pyrrolyl, pyranyl, thiopyranyl, pyridyl, thiazolyl, imidazolyl, pyrimidyl, triazinyl, indolyl, quinolyl, purinyl and benzothiazolyl, or,

-C=C-Z,

$$Y_1$$
 Y_2
and Z is aryl or the group

The finality set forth in the last Office Action is withdrawn.

Subsequent to the amendments to claims 6, 10 and 14, the rejections of record under 35 U.S.C. 102(b) as being anticipated by Badger et al., U.S. Patent No. 4,772,607, and as being anticipated by Kamoun et al., U.S. Patent No.5,173,491, are no longer proper and are withdrawn.

In the first Office Action the claims were rejected under 35 U.S.C. 112, first paragraph, for lacking enablement for compounds of formula I wherein any heterocyclic group is possible for the R_5 group. In view of the diverse functionalities among the 14 heterocyclic groups presently claimed for R_5 and the specificity of the adenosine A_2 receptor, the specification fails to provide support commensurate in scope with the claims. The rejection of record under 35 U.S.C. 112, first paragraph, is maintained and is presently extended to include all of the claims now under consideration.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 6, 7, 10, 11, 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Kuefner-Muehl et al., DE 3843117.

Kuefner- Muehl teaches the administration of xanthines as adenosine receptor antagonists to treat aging-related illness such as the neurodegeneration seen in Alzheimer's disease. See, in particular, page 4, lines 42-60.

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 6-17 are rejected under 35 U.S.C. 102(a) as being anticipated by Miwa et al., JP 09040652 (abstract).

Miwa teaches the administration of compounds of instant formula I wherein R_4 is the formula -C=C-Z and Z is substituted phenyl for use in the treatment of degenerative disorders X_1 X_2

such as dementia and Parkinson's disease. Alzheimer's disease is characterized by neurodegeneration of the brain resulting in progressive loss of mental capacity.

No claim is allowed.

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the art.

Baraldi et al., Current Medicinal Chemistry (abstract) is cited to show further the state of

Any inquiry concerning this communication should be directed to Phyllis Spivack at telephone number (703) 308-4703.

September 24, 2001

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